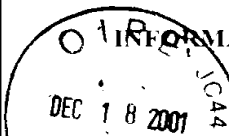


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|  | Docket Number (Optional)<br><b>A34514-PC-T-USA</b>                    | Application Number<br><b>09/890,431</b>    |
|   | Applicant(s) <b>002923.097830</b><br><b>Poopathy Kathirgamanathan</b> |  |
|   | Filing Date<br><b>July 30, 2001</b>                                   | Group Art Unit<br><b>Not Available Yet</b> |

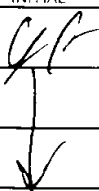
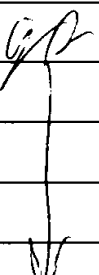
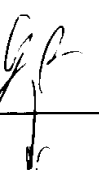

| U.S. PATENT DOCUMENTS |     |                 |          |                  |       |          |                               |
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| *EXAMINER<br>INITIAL  | REF | DOCUMENT NUMBER | DATE     | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
| <i>GP</i>             |     | 4,356,429       | 10-26-82 | Tang             |       |          |                               |
|                       |     | 4,720,432       | 01-19-88 | VanSlyke, et al. |       |          |                               |
|                       |     | 4,885,211       | 12-05-89 | Tang, et al.     |       |          |                               |
|                       |     | 4,455,364       | 06-19-84 | Sasa             |       |          |                               |
|                       |     | 5,128,587       | 07-07-92 | Skotheim, et al. |       |          |                               |
|                       |     | 5,755,999       | 05-26-98 | Shi, et al.      |       |          |                               |
|                       |     | 5,757,026       | 05-26-98 | Forrest, et al.  |       |          |                               |
|                       |     | 5,435,937       | 07-25-95 | Bell, et al.     |       |          |                               |
|                       |     | 5,281,489       | 05-02-01 | Mori, et al.     |       |          |                               |
| <i>GP</i>             |     | 09/830,897      | 05-02-01 | Kathirgamanathan |       |          |                               |
|                       |     | 09//466,523     | 12-17-99 | Kathirgamanathan |       |          |                               |

| FOREIGN PATENT DOCUMENTS |     |                 |          |         |       |          |             |    |
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|                          | REF | DOCUMENT NUMBER | DATE     | COUNTRY | CLASS | SUBCLASS | Translation |    |
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| <i>GP</i>                |     | 0087309         | 02-21-83 | Europe  |       |          |             |    |
|                          |     | 0278629         | 01-27-88 | Europe  |       |          |             |    |
|                          |     | 0461542         | 06-06-91 | Europe  |       |          |             |    |
|                          |     | 0556005         | 02-08-93 | Europe  |       |          |             |    |
| <i>V</i>                 |     | 0569827         | 05-05-93 | Europe  |       |          |             |    |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |  |
|--|--|
| <i>GP</i>  | Y. Hamada, et al., Blue Electroluminescence in Thin Films of Azomethin-Zinc Complexes, Japanese Journal of Applied Physics, 32 (1993), pp. L511-L513       |
| <i>GP</i>  | M. Berggren, et al., Ultraviolet Electroluminescence from an Organic Light Emitting Diode, 6156 Advanced Materials, 7 (1995) November, No. 11, pp. 900-903 |

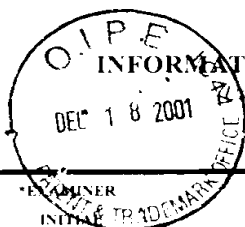
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| <b>INFORMATION DISCLOSURE CITATION</b><br>(Use several sheets if necessary)                  |                 |  |                  | ATTY DOCKET NO.<br><b>A34514-PCT-USA</b> |          | SERIAL NO.<br><b>09/890,431</b>   |  |
|  |                 |  |                  | Poopathy Kathirgamanathan                |          |                                   |  |
|  |                 |  |                  | FILING<br><b>July 30, 2001</b>           |          | GROUP<br><b>Not Yet Available</b> |  |
| <b>U.S. PATENT DOCUMENTS</b>   |                 |  |                  |  |          |                                   |  |
| *EXAMINER<br>INITIAL   | DOCUMENT NUMBER | DATE   | NAME             | CLASS                                    | SUBCLASS | FILING DATE<br>IF APPROPRIATE     |  |
|              | 09/857,287      | 06-01-01   | Kathirgamanathan |  |          |                                   |  |
|  | 09/857,286      | 06-01-01   | Kathirgamanathan |  |          |                                   |  |
|  | 09/857,300      | 06-01-01   | Kathirgamanathan |  |          |                                   |  |
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| <b>FOREIGN PATENT DOCUMENTS</b>  |                 |  |                  |  |          |                                   |  |
|  | DOCUMENT NUMBER | DATE   | COUNTRY          | CLASS                                    | SUBCLASS | TRANSLATION<br>YES NO             |  |
|            | 0744451         | 05-25-95   | Europe           |  |          |                                   |  |
|  | 0936844         | 02-12-99   | Europe           |  |          |                                   |  |
|  | 06145146        | 11-06-92   | Japan            |  |          |                                   |  |
|  | 1-256584        | 10-13-89   | Japan            |  |          |                                   |  |
|  | 1-282291        | 11-14-89   | Japan            |  |          |                                   |  |
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| <b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)                |                 |  |                  |  |          |                                   |  |
|            |                 | N. Armaroli, et al., Luminescence properties of Eu <sup>3+</sup> , Tb <sup>3+</sup> , and Gd <sup>3+</sup> complexes of the hexafentate N-donor podand tris-[3-(2-pyridyl) pyrazol-yl] hydroborate, Chemical Physics Letters 276 (1997), pp. 435-440 |                  |  |          |                                   |  |
|  |                 | N.C. Greenham, et al., Measurement of absolute photoluminescence quantum efficiencies in conjugated polymers, Chemical Physics Letters, 241 (1995), pp. 89-96  |                  |  |          |                                   |  |
| EXAMINER  |                 |  |                  | DATE CONSIDERED <b>6/10/03</b>           |          |                                   |  |

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| Docket Number (Optional)<br><b>A34514-PC-T-USA</b> | Application Number<br><b>09/890,431</b>    |
| Applicant(s)<br><b>Poopathy Kathirgamanathan</b>   |  |
| Filing Date<br><b>July 30, 2001</b>                | Group Art Unit<br><b>Not Yet Available</b> |

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

- 40
- J. Kido, et al., White-Light-Emitting Organic Electroluminescent Device Using Lanthanide Complexes, Japanese Journal of Applied Physics Vol. 37, 1996, pp. L394-L396
- K. Hensen, et al., Darstellung Von N-BZW. O-Chlormethylsilyl-Derivaten der Amine 2,3,4-Tetrahydro-1-,10-Phenanthrolin und 8-Hydroxychinolin, Journal of Organometallic Chemistry, 209, (1981), pp. 17-23
- J. Kido, et al., Organic Electroluminescent Devices Using Lanthanide Complexes, Department of Materials Science and Engineering, Yamagata University, Yamagata, Japan, 1995, pp. 110-111
- C.J. Kepert, et al., Structural Systematics of Rare Earth Complexes. V+ the Hydrated 1:1 Adducts of 2,2':6',2''-Terpyridine with the Lanthanoid (III) Chlorides, Australian Journal of Chemistry, Vol. 47, 1994, pp. 365-384
- K. Machida, et al., Redox Behavior and Luminescence Property of Europium Polymer Complexes, Department of Applied Chemistry, Faculty of Engineering, Osaka University, Osaka, Japan, 1991, pp. 70-71
- K. Hayashi, et al., Syntheses and Structural Studies of Lanthanide Mixed Ligand Complexes containing B-diketone, Department of Chemistry, Faculty of Science, Ochanomizu University, Tokyo, Japan 1996, pp. 210-211
- K. Tsuchiya, et al., Complex Formation and its High Dispersion in the Simultaneous Vacuum Deposition of Copper and Phthalocyanine, Faculty of Engineering, Yamagata University, Yomezawa, Japan, 1998, pp. 149-154
- L. K. Templeton, et al., Anomalous Scattering by Praseodymium, Samarium and Gadolinium and Structures of their Ethylenediaminetetraacetate (edta) Salts, Acta. Cryst. (1982). B38, pp. 2155-2159
- J. Kido, et al., Bright red light-emitting organic electroluminescent devices having a europium complex as an emitter, Applied Physics Letters, 65. (17), 24 October 1994, pp. 2124-2126
- T. Wakimoto, et al., Organic EL cells with high Luminous efficiency, Applied Surface Science, 13/114 (1997), pp. 698-704
- J. Kido, et al., Electroluminescence in a Terbium Complex, Chemistry Letters, The Chemical Society of Japan, 1990, pp. 657-660
- TC 1700

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# INFORMATION DISCLOSURE CHECKLIST

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Docket Number (Optional)

A34514-PCT-USA

Application Number

09/890,431

Applicant(s)

Poopathy Kathirgamanathan

Filing Date

July 30, 2001

Group Art Unit

Unassigned


## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | NAME                               | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
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|                      |     |                 | COPY OF PAPERS<br>ORIGINALLY FILED |       |          |                               |
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## FOREIGN PATENT DOCUMENTS

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|  |     |                 |      |         |       |          | YES         | NO |
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |  |  |
|--|--|--|
|  |  | Junji Kido, et al. "Multilayer White Light-Emitting Organic Electroluminescent Device" SCIENCE, March 1995, Vol. 267, pp. 1332-1334<br>v |
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